

In re: Michael J. Collins et al.  
Serial No. 10/065,173  
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**AMENDMENTS TO THE CLAIMS**

This listing of claims will replace all prior versions of claims in the application:

**Listing of Claims:**

Claim 1 (previously presented): A sample for NMR measurement comprising:  
an organic portion containing at least some fats and oils on a pad that is  
hydrophilic and lipophilic and substantially transparent to microwave radiation and is  
free of atoms that would interfere with or mask the proton NMR response of the protons  
in the fats and oils in the sample; and

a sheet material that is free of atoms that would interfere with or mask the NMR  
response of the protons in the fats and oils in the sample, said sheet material being  
wrapped around said organic portion and said pad.

Claim 2 (previously presented): A sample according to Claim 1, wherein the fats  
and oils are partially melted.

Claim 3 (cancelled)

Claim 4 (cancelled)

Claim 5 (previously presented): A sample according to Claim 1, wherein the fats  
and oils are completely melted.

Claim 6 (previously presented): A sample according to Claim 1, wherein said pad  
comprises quartz fibers.

Claim 7 (previously presented): A sample according to Claim 1, wherein said pad  
comprises glass fibers.

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Claim 8 (previously presented): A sample according to Claim 1, wherein the sheet material is nonporous to oils and fats.

Claim 9 (previously presented): A sample according to Claim 1, wherein said sheet material comprises a polytetrafluoroethylene (PTFE) polymer.

Claim 10 (previously presented): A sample according to Claim 1, wherein said sample comprises a food product.

Claim 11 (previously presented): A sample according to Claim 10, wherein said food product comprises protein.

Claim 12 (previously presented): A sample according to Claim 10, wherein said food product comprises a carbohydrate.

Claim 13 (new): A sample for NMR measurement comprising:  
an organic portion containing at least some fats and oils on a pad comprising quartz fibers or glass fibers that is hydrophilic and lipophilic and substantially transparent to microwave radiation and is free of atoms that would interfere with or mask the proton NMR response of the protons in the fats and oils in the sample; and  
a sheet material comprising a polytetrafluoroethylene (PTFE) polymer that is free of atoms that would interfere with or mask the NMR response of the protons in the fats and oils in the sample, said sheet material being wrapped around said organic portion and said pad.

Claim 14 (new): A sample according to Claim 13, wherein said sample comprises a food product.

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Claim 15 (new): A sample for NMR measurement comprising:  
a food product comprising an organic portion containing at least some fats and oils on a pad that is hydrophilic and lipophilic and substantially transparent to microwave radiation and is free of atoms that would interfere with or mask the proton NMR response of the protons in the fats and oils in the food product; and  
a sheet material that is free of atoms that would interfere with or mask the NMR response of the protons in the fats and oils in the food product, said sheet material being wrapped around said food product comprising an organic portion and said pad.

Claim 16 (new): A sample according to Claim 15, wherein said pad comprises quartz fibers.

Claim 17 (new): A sample according to Claim 15, wherein said pad comprises glass fibers.

Claim 18 (new): A sample according to Claim 15, wherein said sheet material comprises a polytetrafluoroethylene (PTFE) polymer.

Claim 19 (new): A sample according to Claim 15, wherein said food product comprises a meat product.

Claim 20 (new): A sample according to Claim 15, wherein said food product comprises a dairy product.

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Claim 21 (new): A sample according to Claim 15, wherein:  
said pad comprises quartz fibers or glass fibers; and  
said sheet material comprises a polytetrafluoroethylene (PTFE) polymer.

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